

Title (en)
Atraumatic prosthetic heart valve prosthesis

Title (de)
Atraumatische prothetische Herzklappenprothese

Title (fr)
Prothèse valvulaire cardiaque atraumatique

Publication
EP 2119417 A2 20091118 (EN)

Application
EP 09160105 A 20090513

Priority
US 5394308 P 20080516

Abstract (en)
An atraumatic heart valve prosthesis includes a prosthetic valve (410) coupled to an expandable anchoring structure (400) including a outflow portion (435) configured to taper inwardly in a distal direction towards a central axis of the prosthesis. By this configuration, the distal end (460) of the anchoring structure imparts less force upon the vessel wall (e.g., the aortic tunica intima) during continued expansion and contraction of the heart. The expandable anchoring structure (400) can be balloon expandable or self-expanding.

IPC 8 full level
A61F 2/24 (2006.01)

CPC (source: EP US)
A61F 2/2418 (2013.01 - EP US); **A61F 2/2433** (2013.01 - EP US); **A61F 2/2436** (2013.01 - EP US); **A61F 2230/0054** (2013.01 - EP US)

Citation (applicant)
• US 2006178740 A1 20060810 - STACCHINO CARLA [IT], et al
• US 2005197695 A1 20050908 - STACCHINO CARLA [IT], et al

Cited by
EP2682072A1; CN106456329A; EP2201911A3; US9867695B2; US11439732B2; WO2013052757A3; US11419720B2; WO2016046599A1; EP3213718A1; US9788931B2; US10653509B2; EP2644158A1; WO2013144762A1; US11357622B2; US11497602B2; US11779742B2; US11602429B2; US11998447B2; US10856984B2; US11439504B2; US11793640B2; US11413139B2; US11389291B2; US11737872B2; US10098733B2; US10327892B2; US11464631B2; US11491006B2; US9681968B2; US9848981B2; US10940001B2; US10966823B2; US11311376B2; US11389294B2; US11617650B2; US11931254B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2119417 A2 20091118; EP 2119417 A3 20100310; EP 2119417 B1 20120425; EP 2119417 B2 20200429; AT E554731 T1 20120515; ES 2386239 T3 20120814; US 2009287296 A1 20091119; US 8840661 B2 20140923

DOCDB simple family (application)
EP 09160105 A 20090513; AT 09160105 T 20090513; ES 09160105 T 20090513; US 46492309 A 20090513